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YARN	6 cut to 60 cut. Plain-Sized-Waxed-Rubbed. Metallic: Brass, copper, zinc, monel, nichrome or stainless steel wire insertion.
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TAPE	Non-metallic. Asbestos-metallic. ¼″ to 8″ wide. .015″ to ½″ thick.
TUBING	Braided-Woven-Plain-Sized.
WICK	WICKING - ROPE
RINGS	Split, endless, flat, dome, bevelled, tapered—for valves controlling air, oil, gas, water, steam, chemicals.
GASKETS	Boiler - Stove - Furnace - Plumbing.
PACKING	General line of asbestos, flax, duck.

BRAKE LINING—Woven, Hydro-molded.

GENERAL ASBESTOS & RUBBER DIVISION

of Raybestos-Manhattan, Inc.

NORTH CHARLESTON, S. C.

"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

A. S. ROSSITER, *EDITOR*

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THE NEW YORK WORLD'S FAIR

Asbestos Products in Amazing Quantity and Number Promote the Welfare of Fair Visitors

When you visit the New York World's Fair this summer (and we imagine that many of our readers will be seen there at one time or another) unless you are unusually observant, you may actually *see* only one or two asbestos products in use.

You will therefore be as surprised as we have been to learn of the tremendous quantities of asbestos materials which are in service, helping to make the fair buildings fireproof, comfortable, beautiful or contributing to the healthful enjoyment of the crowds which are expected to flock daily to this marvelous and stupendous Exposition.

The J-M Building at the New York World's Fair. Motion pictures, dramatic murals and displays tell how four minerals—asbestos, diatomaceous earth, limestone and asphalt have been transformed thru J-M research into hundreds of products useful in home and industry.

Months ago when we started to collect data on the use of asbestos materials at the New York Fair, we realized that because of the temporary nature of buildings, the proportion of asbestos products might be lower than in most large projects. This of course was partially outbalanced by the need for fire resistant and fireproofing materials.

The mural in the Keasbey & Mattison Exhibit at the New York World's Fair is being recognized as an outstanding work of art. It is actually made of asbestos materials—Linabestos board forming the background and the man's figure composed of brake lining slotted into the background.

The mural depicts the triumph of asbestos over the elements —rain, lightning, fire, sleet and snow. Theodore J. Taylor is the designer; Miriam Tindall Smith, the artist.

Even at that it was somewhat of a shock to find that over 60,000 lineal feet of asbestos-cement pipe, thousands of square feet of asbestos-cement corrugated sheets, over $75,000 worth of insulation, at least 3,000,000 square feet of asbestos roofing felt, and nobody knows how much as-

bestos-cement wall tile of various types, colors and makes, quantities of asbestos paper, millboard, ebony switchboards and panels, are in use for varied and even unique purposes.[1] Even asbestos theatre curtains and asbestos blankets are in use, the American Asbestos Company supplying one of the curtains for the United States Government Community Building, Johns-Manville the blankets.

The Ehret Magnesia Mfg. Co. alone did $75,000 worth of insulation work, (using 85% Magnesia, Low Pressure insulations, etc.) this work being done in Ford's Exhibition Building, the New York City Exposition Building, Dupont, American Tobacco, Eastman Kodak, Firestone Rubber, Florida Exhibition, Petroleum Industries, and the Electric Utility Buildings, and also in the British Pavilion. Their Durant Insulated Pipe also was used in connection with underground work at the Ford Building.

The Ruberoid Company has supplied Asbestos-Cement flat sheets with rough texture on some of the exterior walls, while their Newtile, Newmarble and wall panels have been used for interiors, including corridors, lavatories, etc.; and their Saturated Asbestos Felt in connection with Built-Up Roofs on a number of the buildings.

The Keasbey & Mattison Company supplied 33,760 square feet of Linabestos in the League of Nations building, and 12,288 square feet of the same material in the Swiss Pavilion, while 5,000 square feet were used in the Petroleum Industries Building. Their corrugated asbestos-cement sheets were used on the Water Sports Building, blue waltile in the Portugal Pavilion, Monobestos as linings for transformer rooms and non-sweat pipe covering on cold water service piping. Some of their asbestos-cement pipe was also used for water mains. At least 20 other buildings have K&M materials of one sort and another in their construction.

Johns-Manville serviced various buildings in the Fair with asbestos roofing felt (over 2,800,000 square feet); asbestos flexboard for exterior surfaces, wainscoting, asbestos-cement conduit, asphalt tile flooring (which contains

[1] In the absence of specific figures from some of the Asbestos firms, the quantities given may be quite conservative; at least none of them are exaggerated.

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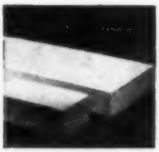

Hi-Temp Blocks—For Furnaces, Ovens, Kilns, etc.

In addition to the insulations shown, Carey makes other Asbestos Specialties — as Plastic and dry Refractory Cements, Asbestos Paper, Asbestos Millboard, Asbestos Packings, Asbestos Cements, Flat and Corrugated Sheathing, Careystone Asbestos-Cement Shingles and Siding, Asbestos Fibre.

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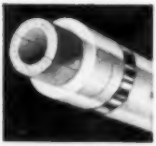

Combination Hi-Temp—85% Magnesia.

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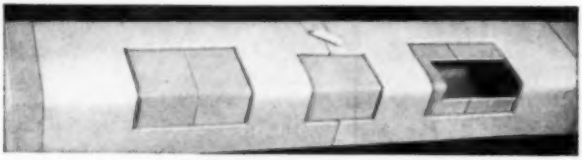

Cut-out view of CAREYDUCT—assembled sections showing staggered joint construction and taped outer jacket. Smooth appearance.

THE PHILIP CAREY COMPANY • Lockland, Cincinnati, Ohio
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BRANCHES IN PRINCIPAL CITIES

asbestos) ebony switchboards and panels, 85% Magnesia and other kinds of insulation, asbestos millboard; asbestos blankets, besides other materials of their manufacture which do not contain asbestos.

At least 38 buildings at the Fair contain large quantities of asbestos products in one form or another, and this figure could probably be almost doubled, had we exact information as to the number of buildings on which some form of asbestos roofing is being used.

While the quantity of various asbestos materials used is interesting, it is even more so to know the reasons for the use of some of the materials, or the purposes for which they are used.

The Asbestos-Cement Pipe for instance. Readers probably know that the Fair is built on a cinder filled salt marsh and, naturally, the soil is exceptionally corrosive. In the case of the pipe, permanence was a desirable feature since the Fair site will eventually be used as a public park, and the pipe will therefore continue to deliver water to the site for years to come. Not only the expected 60,000,000 visitors to the Fair, but those who will visit the park afterwards, can be certain of an abundant supply of pure, clean water, thanks to the use of asbestos-cement pipe.

Many of the asbestos materials are used because of their fire resistant or fireproofing qualities.

Then there is the esthetic side, and one of the most outstanding instances of this is the application of Corrugated Asbestos-Cement sheets (Everite Bigsix made by Turners Asbestos Cement Company of England, and applied by Asbestos Erectors, Inc., of Ambler, Pa. These sheets were painted sky-blue and were butted both at the side and ends rather than lapped. They were used as the *ceiling* in the main exhibition hall and canopies of the British Pavilion—the quantity used amounting to about 25,000 square feet.

While much of the roofing material used on the Fair buildings is asbestos saturated felt or built-up roofing, some of it is canvas flameproofed and laid over asbestos paper.

An unusual roof covers the Aviation Building. It is of aluminum covered asbestos-protected metal, the alumi-

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num foil surface being finished with a burlap texture effect.

There are probably many other unique uses of asbestos products thruout the Fair.

Asbestos products therefore, because of their outstanding qualities of fireproofing, fire resistance, cleanliness, attractive appearance, and in a few cases their durability, are well represented at this very wonderful Exposition, which opened on April 30th, and will be a source of amusement, amazement, education and interest for the next five months, to sixty millions of people.

Editor's Note: We have no doubt that many asbestos firms not mentioned in this article have their materials in use at the Fair, but, obviously, it was possible to mention only those who were sufficiently interested to send us information.

NEW MOULDING COMPOUNDS

General Plastics, Inc., of North Tonawanda, N. Y., have recently placed on the market two newly formulated asbestos-filled molding compounds, known as Durez 38-443 and Durez 38-646. They report that a great deal of interest has been evinced by the announcements of these two compounds, and believe that a far more extensive use of this type of molding material will be made as a result of their formulations.

Compound 38-443 has been formulated to meet the Underwriters' specifications calling for a material to withstand 200°C. for 72 hours, with a specific gravity of 1.80. The compound has a heat resistence of 490°F., impact strength of .23 (ASTM), compressive strength of 28,000 (ASTM).

Compound 38-646 has an exceptionally low specific gravity (1.59) for an asbestos-filled compound. It has a heat resistance of 500° F., but a lower impact strength than 38-443, the impact strength of 38-646 being .19. Its flexural strength is 9,000 (ASTM), higher than any previously available asbestos material.

K&M best in asbestos

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Since K & M "Century" Shingles were pioneered for roofing and siding by Keasbey & Mattison Company, nothing has been created to surpass these asbestos-cement shingles in enduring beauty and economy. Available in many styles, sizes and colors. ● To industrial and residential construction, K & M quality also offers its advantages in plain, formed and corrugated Asbestos Lumber, in plain and decorative Asbestos-Cement Wallboard and in Waltile. ● A few good territories are still open to the right Distributors. Contact us without delay.

See K & M's Fiery Snowman and Exhibit in the Home Building Center at the N.Y. World's Fair

KEASBEY & MATTISON COMPANY

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LOST PIONEERS

Editorial by C. J. Stover

Walter Lippman recently wrote a piece which splendidly expressed an idea I have held for years but could not put into satisfactory words.

Lippman, after several tours over Europe and America is convinced that there is still no end of space open in America; an immense amount of undeveloped country waits for the pioneer settler.

We have been taught that the American Progressive was a pioneer in an undeveloped country and that, now the country is fully settled and occupied, the Progressive must be a Reformer who redistributes the limited opportunities that have already been developed.

Lippman feels that this theory is unsound since what has disappeared is not only the opportunity open the pioneer settler but rather the willingness and the capacity to take advantage of the opportunities available.

Actually, we Americans have become so soft that the output of our educational system consists of boys and girls trained to white-collar jobs and unfit, physically and emotionally, to be pioneers.

A pioneer is a man who largely renounces "civilization" and its comforts, to spend his life in hard work in order to make for himself in old age, and for his children, new opportunity in an independent life of his own.

Men now living in slums are willing to escape only if new, modernly convenient settlements are prepared for them. The pioneer would not wait upon others, but would blaze his own trail, hew the timber for his own house, dig in his own fields and would resent anyone, individual or Government, interfering with his right to control his own destiny.

Not only are these slum dwellers inhibited by their demand for the material conveniences but even more by their nearly complete ignorance of the simple needs of living such as growing of food, repairing of a house or simple farm machinery, the care of animals or even their own

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Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
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South African Blue Crude
South African Yellow Crude

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8 West 40th Street : New York City

Works: MILLINGTON, N. J.

amusement without radio, movies, baseball and the like.

But above all, the pioneer spirit is not encouraged by our educational system, in fact it is definitely discouraged. While our educational plant is the wonder of the world, the output of the plant is convinced that one who has been "educated" cannot and should not do ordinary labor.

Equal chance at an education for all is American and is democratic. But to train the student in the aristocratic idea that an "educated" person should do no "menial" work is un-American and certainly un-democratic.

We are trying to educate everyone and while about it we are educating all who are educated smack out of the willingness to do the work that uneducated men used to do. Even this contradictory system might work had we not, for excellent reasons, estopped immigration of common labor.

Having drastically curtailed immigration and thus having no input of common labor except from our own birthrate, the problem of the schools becomes really tough. Unless the schools can educate *all* democratically, without at the same time destroying our supply of common labor or semi-skilled labor, then this American experiment in democratic education will have become an almost unsolvable problem.

For, as Lippman says, "We shall be trying to operate a society without classes among a people educated to an idea of life that descends from a time when society was sharply divided into classes".

ISN'T IT TRUE!

A certain amount of news on business trends is indispensable to any executive these days. But, could it be possible that too many of us are intoning a prayer each day for increased carloadings, when we might better be making a new customer, or improving our product?

If we know the market we are selling, if we put our best effort into making the best product, if we do our jobs as well as we know how, we're attending to the fundamentals that have always brought success to American business. We're then *pushing* up the graphs instead of *"watching"* them up. — *Quoted from Ediphone Voice Writing.*

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THE ASBESTOS EXHIBIT

At the Golden Gate International Exposition, in California

While we Easterners are probably unduly excited about the World's Fair in New York City, our Western readers are as much interested in the Golden Gate International Exposition on Treasure Island, California, which opened on February 18th of this year. The Golden Gate Exposition is remarkable for its beauty as well as for its educational and other features.

The California Bureau of Mines has staged a rather unique Exhibit in the Mining Building of the Exposition, it being in the form of a "Treasure Mountain" 300 feet long by 150 feet deep and approximately three stories high, and indicating the broad outline of a mountain. In this "mountain" are numerous tunnels displaying various types of minerals and the operation of mining machinery.

One such tunnel is arranged as a series of display windows, and one of these windows contains an exhibit of asbestos. The photograph will give some idea of this exhibit; the window is 5 feet high by 8 feet long, with a mural background. In the front of the window is a trough where are shown specimens of raw asbestos from many parts of the world—Canada, Russia, Cyprus, Rhodesia, Italy, Venezuela, China, South Africa (showing Chrysotile, Amosite and Crocidolite or Blue varieties) and also from Arizona, Maryland and Vermont in the United States.[1]

The Asbestos Display also includes representative samples of asbestos-cement shingles, corrugated, flat sheets and pipe, and also of pipe covering, packing, textiles. The exhibit was arranged by the California Bureau of Mines, assisted we understand by N. L. Best, District Engineer of Johns-Manville, San Francisco. Statistics for use in the exhibit were supplied by "ASBESTOS".

Johns-Manville also has a very interesting exhibit at

[1] These specimens were supplied by Johns-Manville. Asbestos Limited, Inc., Powhatan Mining Corporation, Vermont Asbestos Mines and from our own collection of Crude Asbestos.

the Golden Gate Exposition in the Home and Gardens Building, the exhibit including a complete display of Johns-Manville products, both industrial and building materials, with the central feature of an Asbestos Man standing in a pit of fire, indicating the indestructibility of asbestos and its service to the Home and all Industry.

In addition Johns-Manville also sponsored a Guildway Model Home in the Model Homes Village on Treasure Island, this house being a full-sized five room structure with a roof of asbestos-cement shingles, and side walls of asbestos-cement clapboard. Wainscoting and Flexboard are used in the bathroom and kitchen, and other J-M Building materials not containing asbestos, in other parts of the house.

Asbestos Display by California Bureau of Mines. The specimens of Crude Asbestos at front of the display are not shown in the photograph.

Many asbestos products are used in buildings and for various purposes thruout the Exposition grounds. The Administration Building and the Pan-American Airways Sub-

Terminal Building, both permanent buildings, have 85% Magnesia in use, on their pipes and boilers. Asbestos Cloth is in use for fire wall protection, asbestos ebony as electrical buss supports, listing tape in buss and cable protection, wall tiles in various exhibits, flat and corrugated asbestos-cement sheets in the Heinz, DuPont, and Armour exhibits and in California State Building, asbestos cement conduit and pipes thruout the Fair.

It is really the old, old story—we wonder whether there is ever any worthwhile project in any part of the United States or, in fact, the world, in which asbestos does not have its part.

ONE FOR THE BIG WIGS

Not long ago a big job of mechanical equipment was being erected.

The equipment had been designed at the New York Office of a large firm of Engineers.

During erection the Foreman and some of the better mechanics discovered certain errors in design, reported them to their superiors and prophesied that, unless these errors were corrected, the equipment could not and would not function.

As too often happens, word came back from New York caustically reminding these practical men that when they were wanted as designers or engineers they would be called to New York and put in charge.

"Okay!" said the field men, proceeding to erect according to plan.

When finished and the steam turned on—no performance—and, *of course,* the field men were on the spot.

One remark by an excellent workman, albeit not a white-collared, smooth spoken chap, contained a world of sense. He said "De trouble wit dem guys is dey don't know nuttin' and won't let anybody tell dem nuttin' ".

In our own American slang, "Ain't it the truth?"

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MARKET CONDITIONS

GENERAL BUSINESS

The space we are able to devote in "ASBESTOS" to a discussion of general business is far too small to give a worthwhile picture of all the factors which are at present affecting the general market situation.

We quote below a few paragraphs taken from the May letter of the National City Bank, but those interested should certainly read the entire letter this month as its discusses very comprehensively the effect here of a possible European War. Briefly the letter sums up the present condition of general business as follows:

"The month of April has been another period of unsettlement in business and the markets, with sentiment disturbed both by the menace of war in Europe and by the failure of domestic trade and production to show the Spring improvement for which the optimists had hoped.

"While retail trade has given generally satisfactory reports, new buying of both raw materials and manufactured goods has been sluggish, and with unfilled orders tapering off a number of the industries have either reduced their output moderately, or failed to make anticipated seasonal gains.

"The drop in steel mill operations has been greater than expected, and the suspension of bituminous coal mining in the Appalachian area, due to the strike, has cut coal output to about one-fourth the previous rate."

Last month Herbert Abraham, President of The Ruberoid Co., at the annual meeting of the Company called attention to the fact that "progress toward economic recovery in this country will depend in large measure upon a continuing revival of the building industry". Report issued by F. W. Dodge Corporation just a few days later (See page 22 of this number of "ASBESTOS") contained most encouraging information on building activity. Note three statements particularly:

March residential contracts, despite storms and a de-

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Mines

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Black Lake, Quebec

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layed spring, rose to the highest level on record since October 1929.

Total construction contracts for the first quarter of 1939 have reached the highest volume in eight years.

In residential building, the contract total for the first quarter represented a ten year peak.

Added to this is the rather favorable showing of automobile production in March (See page 33) which showed quite an increase over March of last year; and the total for the quarter going 400,000 beyond the same period in 1938.

So much for general business.

RAW ASBESTOS

Imports of raw asbestos into the U. S. A. from all sources show considerable improvement. Probably the war scare is partly responsible for large imports from South Africa. All prices are firm.

ABSESTOS - MANUFACTURED GOODS

Textiles. In this market there is some improvement in visible demand altho prices are still erratic.

Paper and Millboard. Demand for Asbestos Papers is fair with prices holding firm.

Millboard demand is and has been rather light with prices on the whole holding fairly well.

Insulation. High Pressure. Volume in these lines has shown some improvement recently. Looking backward it is now apparent that activity from the latter part of 1938 to date has been "fairly steady at reduced levels." As for the future, it seems evident that a firmer trend in other lines must make itself evident before any substantial increase in insulation volume can reasonably be expected.

Insulation. Low Pressure. In this market demand is light as is usual at this season. Prices for the most part are holding up well.

Asbestos-Cement Products. Prospects for better volume this year over last are very good in the asbestos-cement products industry. In fact, sales of both roof shingles and sidings are running substantially ahead in the first quarter. Excess production capacity in the industry, however, and

(Continued on Page 39)

VERMONT ASBESTOS

Clean, well fiberized asbestos particularly well suited for the manufacture of the better types of:

●

SHINGLES
MILLBOARD
BRAKE LINING
CLUTCH FACING
ROOFING PAINTS
PLASTIC-CEMENT
ASBESTOS PAPER
MOULDED PLASTICS
INSULATING CEMENT

●

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●

CONTRACTORS AND DISTRIBUTORS PAGE

Association Activities

What can an Association of Contractors do to help its members?

1. An Association should establish a Quantity Survey Bureau with a manager in charge with whom all quantities of jobs sought after by members would be submitted and checked, in order to prevent many foolish and expensive errors.
2. A very comprehensive cost system should be worked out by a cost committee. Open to inspection at all times, it would be based on the average experience of all its members over a period of years.
3. An inspection service should be maintained.
4. One of the important tasks of an association is to bring home to the public the shortsightedness of dealing with any but reliable contractors.
5. An association should improve the methods of specification and application.
6. It should effect greater efficiency in the selling and application.
7. Develop new uses, better and broader markets for materials in connection with new as well as old building construction.
8. Promote goodwill among competitors.

All of these points and suggestions are made by H. E. Pearse, President of the Cuyahoga (Cleveland) Composition Roofers' Association in his article in The American Roofer[1] for March, and all of them were meant for associations of roofers or roofing contractors, but see how well they fit the insulation trade.

[1] Published at 404 Fourth Avenue, New York City.

Building -- March Highs

March residential contracts, despite severe storms and a delayed spring, rose to the highest level on record since October, 1929.

The gain over the March, 1938 total for the 37 states east of the Rocky Mountains amounted to 58 per cent, according to F. W. Dodge Corporation. The gain of 59 per cent over February, 1939 was somewhat more than the usual seasonal increase.

Total contracts for all classes of construction started during March, amounted to $300,661,000 which represented a gain of 32 per cent over March of last year and a further gain of 36 per cent over February of this year. All major classes of construction contributed to these gains. During March, the volume of F. H. A.

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Write for Circular - Further Information - Price

mortgages accepted for appraisal have risen each week with almost continuous regularity. The total of $29,457,028 reported for the final week of March by the Federal Housing Administration was the *highest amount for any week on record.* These gains may presage further expansion in residential building as the year progresses.

Total construction contracts for the first quarter of 1939 have reached the *highest volume in eight years.* The gain over last year amounted to 44 per cent, while the increase over the first quarter of 1937, which represented the previous high point in the recovery period, amounted to 17 per cent. *In residential building, the contract total for the first quarter represented a ten-year peak.* The gain over the corresponding period of last year amounted to 83 per cent, and over the first three months of 1937 to 23 per cent. In non-residential building, corresponding gains over the first quarter of last year amounted to 30 per cent while contracts for public works and utilities were 25 per cent ahead of the first three months of 1938.

Further analysis of the construction record on the basis of ownership, reveals the fact that private building has shown far greater gains than public construction. For private work, the March record was 58 per cent ahead of February while public work showed a corresponding gain of only 16 per cent. At the end of the three-months' period, private construction was 40 per cent above last year. On the other hand, public construction, because of the low totals during the early months of last year, registered a 47 per cent gain over the first quarter of 1938.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		April 1939		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	33½	40¾	36⅞
Asbestos Corp. (Com.) Old	np	70	88	81
Asbestos Corp. (Com.) New	np	19	22	22
Celotex (Com.)	np	10	14¾	11½
Celotex (Pfd.)	100	60	78	69
Certainteed (Com.)	1	6½	9	7⅞
Certainteed (Pfd.)	100	22¼	35½	28½
Flintkote (Com.)	np	16¼	21⅞	19¾
Johns-Manville (Com.)	np	65¼	75	71½
Johns-Manville (Pfd.)	100	122¼	128⅜	128
Raybestos-Manhattan (Com.)	np	16	18½	18⅛
Ruberoid (Com.)	np	18½	24	22
Thermoid (Com.)	1	2½	3⅛	2⅞
Thermoid (Pfd.)	10	12¼	18	17
U. S. Gypsum (Com.)	20	77	87	81
U. S. Gypsum (Pfd.)	100	167	177	167

RAW ASBESTOS

N. V. NEDERLANDSCHE ASBEST MY
P. O. BOX 803
ROTTERDAM (Holland)
Stock at Hamburg, Rotterdam

FOR SALE

Tremendous deposit of Superfine

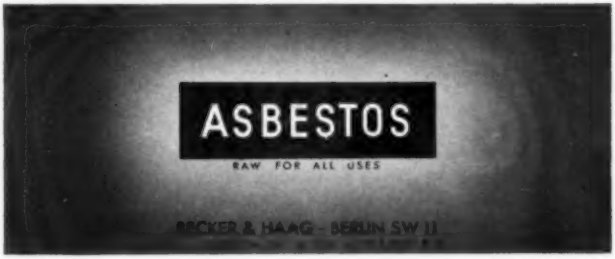
CHRYSOTILE ASBESTOS

Near Lander, Wyo.

This property contains high yield of crude fibre. Serpentine formation. Easily mined and is very accessible.

Will make a fair deal for quick action.

Owner, CHAS. RETZKY, 850 Ainslie St., Chicago
Phone, Sunnyside 4815



WANTED

Asbestos Mining Engineer, — one who can interest large capital for operation of a rich asbestos deposit. Unusual possibilities for returns. Address Box 3R-C, "ASBESTOS", 16th Fl., Inquirer Bldg., Phila., Pa.

THE PHILADELPHIA ELECTRIC CO.-

Uses huge quantities of Insulation on its new Schuylkill Power Station

The new No. 3 — 50,000 Kw. turbo-generator installed in the Schuylkill Power Station of the Philadelphia Electric Company first turned over, under its own power, on September 14, 1938.

Thru the medium of superposition, Schuylkill Station takes its place as one of the best operating stations in the Philadelphia Electric Company's system. (Super-position is a method of cross-compounding by exhausting a high pressure turbine to the existing low-pressure turbines and replacing old low-pressure boilers with high pressure steam generators.)

Two 600,000 lb./hr. bent tube pulverized fuel fire boilers generate steam at 1350 lb./sq.in. gauge pressure and 910°F. These two units replace *twenty-four* old stoker-fired boilers.

In order to assure the maximum efficiency and economy for a modern steam plant of this type, the proper kind and thickness of insulation was a very important factor.

The main steam lines (temperature 910°F.) were insulated with Keasbey & Mattison Company's Combination Covering, total thickness, 5 inches, comprising two inner layers of Hy-Temp, each 1-1/2 inches thick, and an outer layer of 85% Magnesia, 2 inches thick. Various other thicknesses of Combination and Magnesia Covering were extensively used, depending entirely upon the temperature present in the lines or surface to be insulated.

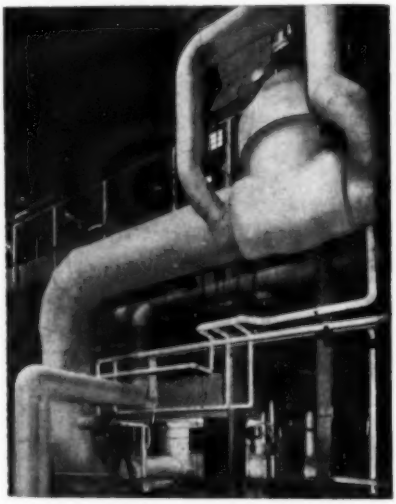
There were approximately 50,000 sq. ft. of flat surface and 20,000 lin. ft. of piping in the installation, in addition to which insulation was installed on hundreds of fittings, valves and flanges ranging in size from 1/2" to 30".

Several intricate and difficult insulating problems were met, and successfully handled thru the cooperation of the Power Company's engineers and the engineers of the John R. Livezey organization[1]. For example: the proper type of

[1] John R. Livezey organization made the entire installation. They have since been succeeded by the Armstrong Cork Co.

removable and replaceable insulating covers for the Boiler Feed pumps and for the Creep Bosses located on the main steam lines, insulation of handhole openings in steam headers, and insulation of expansion joints located on the outside ducts.

Different types of finishes were applied over the insulations such as Asbestos Cloth, Sealkote and Asbestos Cement, all of Keasbey & Mattison manufacture. Wherever



K. & M. Insulation helps to produce Philadelphia's electric power . . . . . The photograph shows the 30" Exhaust piping from the Turbine, the Steam and Exhaust piping to the Hydrogen Coolers, Drip piping, and the Water Supply piping to the desuper - heators in No. 3 Exhaust Unit, all insulated with K. & M.'s insulating materials.

the pipe lines carried high temperature steam, the conventional rosin-sized paper, used as a medium to provide a smooth under-surface for the canvas or asbestos cloth was omitted and asbestos paper was applied.

The Philadelphia Electric Company used 85% Magnesia and Hy-Temp coverings of Keasbey & Mattison manufacture thruout on this project. The actual installation work was performed by the John R. Livezey organization.

Editor's Note: We are indebted to the Philadelphia Electric Company (October 1938 issue of their Current News) and to H. N. Urban of the Armstrong Cork Company for the information contained in the above article.

RELATION OF PRODUCTION OF ASBESTOS IN VARIOUS COUNTRIES[5]

	1937 Tons (2000 lbs.)	1938 Tons (2000 lbs.)
Canada—All Grades (except waste rock) Actual Production	409,813	289,820
Canada—All Grades (except waste rock) Sales and Shipments	410,024	289,793
Cyprus (Exports)	13,080	6,330
Rhodesia (Africa) — Actual Production	57,015	58,810
Union of South Africa — Actual Production	28,633	22,989
Union of South Africa—Exports	27,848	22,266
United States of America—Actual Production	13,896[4]	12,901[4]
U. S. S. R. (Russia)—Exports	30,092	[3]
Imports into U. S. A.—from all Sources	307,188	179,489
Consumption by U. S. A. (Apparent)[1]	316,263[4]	187,150[4]
Imports into England (All Sources)	62,258	60,278
Production of Blue — Crocidolite	5,247[2]	8,810[2]
Production of Amosite	6,531[2]	8,792[2]

ROCK MINED AND MILLED—Canada Only

(From Statistics published by the Dominion Bureau of Statistics and the Quebec Bureau of Mines)

	1937 Tons (2000 lbs.)	1938 Tons (2000 lbs.)
Rock Mined	6,477,805	5,816,368
Rock Milled	5,440,607	4,874,548
Asbestos actually produced from this Rock	409,813	289,820

1 Production plus Imports minus Exports.
2 Included in figure given above for production of Union South Africa.
3 Not available at time of going to press.
4 U. S. Bureau of Mines—M.M.S. 716.
5 Reprinted from April number because more figures available.

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	December 1937 Tons (2000 lbs.)	December 1938 Tons (2000 lbs.)
Transvaal		
Amosite	615.03	488.00
Blue	81.32	212.00
Chrysotile	1,524.56	64.00
Cape		
Blue	494.05	573.00
	2,714.96	1,337.00

Italy[1]

Production 1936 ..... 6,191 short tons
Production 1937 ..... 4,602 short tons

Czechoslovakia[1]

Production 1936 ..... 2,976 short tons

[1] From Foreign Minerals Quarterly, April 1939—U. S. Bureau of Mines.

Canada

(Statistics published by Bureau of Mines, Province of Quebec)

Production March 1939 ..... 22,680 tons (2000 lbs.)
Production March 1938 ..... 22,281 tons (2000 lbs.)

	1st Qr. 1938 Tons (2000 lbs.)	1st Qr. 1939 Tons (2000 lbs.)
Crudes	591	513
Fibres	33,677	31,877
Shorts	17,035	30,294
	51,303	62,684

SUMMARY FOR YEAR (Union of S. Africa)—Tons 2000 lbs.

	Yr. 1937 Tons	Yr. 1938 Tons		Yr. 1937 Tons	Yr. 1938 Tons
Jan.	1,877.57	2,720.41	July	2,441.04	1,656.00
Feb.	1,934.28	2,693.05	Aug.	2,615.34	1,762.00
Mar.	2,153.34	2,681.00	Sept.	2,741.31	1,501.00
Apr.	2,275.74	2,327.00	Oct.	2,717.40	1,349.00
May	2,235.59	1,823.00	Nov.	2,775.24	1,356.00
June	2,151.33	1,784.00	Dec.	2,714.96	1,337.00
				28,633.14	22,989.46

SUMMARY FOR YEAR (Union of S. Africa) (Continued)

By Varieties

	Year 1937 Tons (2000 lbs.)	Year 1938 Tons (2000 lbs.)
Transvaal		
Amosite	6,531.40	8,792.67
Blue	534.69	2,325.70
Chrysotile	16,854.89	5,386.52
Cape		
Blue	4,712.16	6,484.57
	28,633.14	22,989.46

ASBESTOS IN THE DEAD SEA

The recently published book "Days of Our Years" by Pierre Van Paassen, contains the following sentence: "Costly machinery was being installed on the shores of the Dead Sea to extract the sixteen billion dollar treasure of asbestos in the accursed lake", this being in connection with the author's visit to Palestine in 1926.

Efforts to contact Mr. Van Paassen and ask for an explanation of this statement, or further information about it, have so far been futile. Never since we have been interested in asbestos have we heard of any deposit in or near the Dead Sea.

If our readers have any knowledge which might explain this statement of Mr. Van Paassen, apparently made in good faith, will they please write us immediately.

ASBESTOS
ORES - MINERALS
Import · Transit · Export
"Tropag" Asbest & Erzimport
Oscar H. Ritter — K.G.
Hamburg ·—· Alsterdamm 7

Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos Goods:

	February 1938 Tons (2240 lbs.)	February 1939 Tons (2240 lbs.)
Africa (Br. S.)	228	482
Canada	7,685	12,117
Finland	20	.....
Italy	158	119
U. S. S. R. (Russia)	1,008	729
United Kingdom	.....	186
	9,099	13,633
Value	*$374,893*	*$589,406*
Tabulation by Crudes and Fibres:		
Crude (Africa - Br. S.)	228	482
Crude (Canada)	76	88
Crude (Italy)	1	2
Crude (United Kingdom)	.....	186
Crude (U. S. S. R.)	1	.....
Milled Fibre (Canada)	3,213	4,595
Milled Fibre (U. S. S. R.)	1,007	729
Lower Grades (Canada)	4,396	7,434
Lower Grades (Finland)	20	.....
Lower Grades (Italy)	157	117
	9,099	13,633

Manufactured Asbestos Goods:

	February 1938 Pounds	February 1939 Pounds
Austria (Packing)	1,079	.....
Belgium (Shingles)	41,541	214,792
Canada (Woven Fabrics)	10	.....
France (Woven Fabrics)	77	489
Germany (Packing)	.....	574
United Kingdom (Yarn)	1,201	4,645
United Kingdom (Packing)	351	11
United Kingdom (W. Fab.)	2,264	2,515
	46,523	223,026
Value	*$ 3,000*	*$ 6,022*

There were also imported $214 worth of other asbestos products, not classified as to kind. These came from Netherlands and Canada.

Exports from U. S. A.

(Figures published by U. S. Dept. of Commerce)

Exports of unmanufactured asbestos during February 1939 amounted to 312 tons, valued at $28,190; compared with 84 tons, valued at $11,185 in February 1938.

Exports of Manufactured Asbestos Goods:

	February 1938		February 1939	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. ... lbs.	114,123	$22,419	75,598	$ 4,710
Pipe Covg. & Cement ... lbs.	180,627	7,755	88,932	5,791
Textiles & Yarn ... lbs.	37,184	8,395	8,771	2,820
Packing ... lbs.	65,515	35,962	74,104	45,433
Brake Lining—				
Molded & S. Molded ...	...	41,821	...	46,160
Not Molded ... lin. ft.	66,894	14,165	47,365	12,660
Clutch Facings—				
Molded & S. Molded units	16,179	6,221	21,761	7,992
Woven ... units	28,310	5,731	7,784	2,620
Magnesia & Mfrs. of ... lbs.	271,910	23,063	84,652	7,276
Asbestos Roofing ... sqs.	2,466	19,993	2,035	17,261
Other Manufactures ... lbs.	144,383	17,386	554,729	31,546

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	February 1938		February 1939	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom ...	70	$ 3,800	80	$ 4,800
United States ...	3,988	187,379	4,821	269,312
Australia ...	635	43,116	532	31,806
Belgium ...	63	4,878	...	...
China ...	...	...	300	12,753
Czecho-Slovakia ...	50	2,000	...	...
France ...	...	...	77	5,613
Germany ...	863	93,483	94	13,050
Italy ...	...	...	226	22,638
Japan ...	2,206	87,775	2,137	111,179
New Zealand ...	...	...	80	5,640
Poland ...	38	5,555	...	...
Straits Settlements ...	...	...	2	148
	7,913	$427,986	8,349	$476,939
Sand and Waste				
United States ...	4,864	86,915	8,289	158,472
Japan ...	256	6,400	...	...
	5,120	$ 93,315	8,289	$158,472
Grand Total ...	*13,033*	*$521,301*	*16,638*	*$635,411*

Imports and Exports by United Kingdom:

Imports of Raw Material.

	February 1938 Tons (2240 lbs.)	Value	February 1939 Tons (2240 lbs.)	Value
From Africa (Rhodesia)	2,207	£59,957	1,950	£68,813
Africa (U. of South)	970	21,936	307	9,408
Africa (Port. E.)	1	15	.....	.....
Australia	46	4,014	11	820
Canada	63	947	18	229
Cyprus	142	2,818	.....	.....
Finland	.....	.....	20	143
Italy	5	224	.....	.....
Switzerland	.....	.....	.....	22
U. S. of America	5	498	3	19
Venezuela	.....	2	.....	.....
	3,439	£90,411	2,309	£72,454

Imports of Asbestos Manufactures:

February 1938 ..... 19,877 cwts. valued at £ 6,744
February 1939 ..... 48,527 cwts. valued at £22,790

Exports of Asbestos Manufactures:

	February 1938 Cwts.	Value	February 1939 Cwts.	Value
To Eire (Irish Free State)	1,033	£ 1,932	1,423	£ 2,444
British India	9,377	9,044	2,329	6,814
Australia	826	6,474	1,082	5,283
Other Br. Countries	18,802	29,374	23,946	28,744
Netherlands	1,447	5,206	1,666	5,945
Belgium	316	2,809	489	2,794
France	440	1,693	233	1,277
Italy	186	2,320	155	2,285
Other Foreign Countries	15,729	32,241	12,193	25,954
	48,156	£91,093	43,516	£81,540

AUTOMOBILE PRODUCTION

Total automobile production for March 1939 was 389,489 motor vehicles of all classes (371,940 in the U. S. A. and 17,549 in Canada); compared with 238,597 in March 1938 (221,795 in the U. S. A. and 16,802 in Canada).

For the first three months in 1939 a total of 1,055,576 motor vehicles were produced, or almost 400,000 more than in the same period in 1938 when 668,346 were made.

The total for the first quarter of 1939 was not quite up to that of 1937, however, as during that quarter 1,302,108 were turned out.

Exports of Raw Asbestos from South Africa

	Nov. 1937		Nov. 1938	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Algeria	10	£ 149	.....	£ .....
Australia	159	1,925	159	2,796
Belgium	110	1,862	10	185
Denmark	.....	.....	2	39
France	76	2,381	172	3,761
Germany	86	2,777	133	3,937
India	43	264	.....	.....
Italy	31	708	.....	.....
Japan	148	1,054	18	265
Netherlands	60	890	.....	.....
United Kingdom	2,034	27,748	909	15,327
United States	374	8,813	475	10,638
	3,131	£48,571	1,878	£36,948

	Dec. 1937		Dec. 1938	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Algeria	.....	£	20	£ 367
Australia	209	2,318	47	673
Belgium	72	1,116	15	283
Chili	.....	.....	20	513
Denmark	.....	.....	.....	8
France	73	2,293	79	1,852
Germany	307	7,833	147	3,756
Italy	115	3,748	86	2,045
Japan	94	1,332	51	1,070
Netherlands	25	262	10	248
Sweden	.....	.....	3	58
United Kingdom	1,305	19,894	452	9,217
United States	353	7,857	264	6,192
	2,553	£46,653	1,194	£26,282

Summary for the year of this tabulation Exports of Raw Asbestos from South Africa, will be published in June "ASBESTOS."

WANTED

Man experienced in details of manufacture of asbestos papers and millboard, preferably educated and trained along technical lines. In reply state age, nationality and give record of experience and college training, if any. A recent photograph should also be included. All replies will be considered confidential. Address Box 5R-B, "ASBESTOS", 16th Floor, Inquirer Bldg., Philadelphia, Pa.

NEWS OF THE INDUSTRY

BIRTHDAYS.

Sumner Simpson, President, Raybestos-Manhattan, Inc., Bridgeport, Conn., May 17.

George Guy Gabrielson, President Sall Mountain Co., New York City, May 22.

Thomas J. S. Nicely, President, Nicely Corporation, Philadelphia, May 25.

George V. Hamilton of George V. Hamilton Co., Pittsburgh, Pa., May 26.

Giles Newton, Managing Director, Cape Asbestos Co., Ltd., London, England, May 27.

M. S. Sprague, Standard Asbestos Company, San Francisco, Calif., May 29.

F. E. Schluter, President, Thermoid Company, Trenton, N. J., May 31.

F. H. Shipe, Asbestos Covering & Roofing Company, Washington, D. C., May 31.

Phil. Zeigenfuss, Vice Pres. & Treas., Insulating Materials Co., St. Louis, Mo., June 2.

Thomas Jenkins, General Manager & Vice Pres., Norristown Magnesia & Asbestos Co., Norristown, Pa., June 5.

Walker Jamar, President, Walker-Jamar Co., Duluth, Minn., June 11.

Howard Snow, President, Southern Friction Materials Co., Charlotte, N. C., June 11.

George I. Hesslein, Treasurer, Insulations, Inc., Cambridge, Mass., June 14.

Congratulations and best wishes are extended to all these gentlemen.

TURNER & NEWALL, LTD., according to announcement of Sir Samuel Turner, Chairman, is providing for its twelve asbestos factories in the United Kingdom, splinter and blast proof protection for all its employes. The total cost of this air-raid precautionary work to the company is estimated at not less than £50,000.

THE NORRISTOWN ASBESTOS MANUFACTURING COMPANY of Boston, Mass., has been appointed distributors of Vermont asbestos by the Vermont Asbestos Mines Division of The Ruberoid Co.

ASBESTOS CEMENT PIPES, INC., 225 Broadway, New York City has recently purchased thirty acres of land near Wood Ridge, N. J., and plans to erect thereon plant for the manufacture of asbestos cement pipes and other products. No date for the starting of plant has as yet been decided upon.

JOHNS-MANVILLE and subsidiaries show for the three months ended March 31st, 1939 (first quarter) a net profit of $125,118; more favorable than for the first quarter of 1938 when a net loss of $239,475 was incurred. Sales for the first quarter of 1939 were $10,397,408; for the same period in 1938 they amounted to $10,435,119.

Follows the report for the first quarter of 1939, compared with the first quarter of 1938:

	3 Months Ended 3-1-39	3 Months Ended 3-1-38
Sales, Billed	$11,230,691.49	$11,424,630.80
Costs of transporting, returns	833,283.86	989,512.12
Net sales	10,397,407.63	10,435,118.68
Income from rents, int., div., etc.	68,120.37	53,463.89
	10,465,528.00	10,488,582.57
Mfg. costs,—materials, fuel, supplies, etc.	5,231,052.10	5,720,628.59
Depreciation & Depletion	577,808.65	549,202.23
Taxes	366,070.19	305,442.24
Wages & Salaries	4,165,479.00	4,152,785.00
Net earnings or loss	$ 125,118.06	$ 239,475.49 L

L equals loss.

ARTICLE. Readers may be interested in the article "Modern Technique of Heat Conservation" by John S. Wallis, appearing in the April 1939 issue of World Petroleum (published at 56 W. 45th St., New York City).

"SELLING PACKING MADE SIMPLE" is a short but informative article in the April 10th issue of Mill Supplies (published at 330 W. 42nd St., New York City).

UNION ASBESTOS & RUBBER COMPANY announces that Morton Staub of Elizabeth, N. J., is now associated with them in Chicago, connected with the headquarters Insulation Sales and Engineering Staff which is directed by Hobart Harden. Mr. Staub was previously connected with Johns-Manville under the late L. B. McMillan, later was staff engineer, was with H. W. Porter Company, and previous to his connection with the Union Asbestos & Rubber Company was Asst. District Engineer, Johns-Manville.

THE CANADIAN MINING JOURNAL (Gardenvale, P. Q.) in its April 1939 issue contains two very interesting and informative articles written by R. C. Rowe, the first "Mining and Milling Operations of The Canadian Johns-Manville Company, Ltd., Asbestos, P. Q." and the second "Manufacturing Operations of Canadian Johns-Manville Co. Ltd."

EUREKA PACKING CO. Braiding & Packing Works of America, Inc., 250-52 Forty-Sixth St., Brooklyn, N. Y., have just issued a new 36 page catalog of Eureka Packings. The catalog is most attractive in appearance and the photographs of various types of packings rather unique in treatment. Altogether a very worthwhile addition to our file of asbestos advertising literature.

HIAG-VEREIN HOLZVERKOHLUNGS-INDUSTRIE, Frankfort-

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—MURRAY HILL 2-8287

on-Mein, has received an authorization (patent) covering a porous material for "dissolved acetylen bottles". The material is composed of a mixture of charcoal, kieselguhr, cement and asbestos. This information is sent us by one of our French correspondents.

KEASBEY & MATTISON CO. D. P. Osterhout on April 15 resigned as Sales Manager in charge of asbestos cement building products, and W. S. Acuff, Jr., has been appointed General Sales Manager in charge of the sale of all products except asbestos cement pipe, which will continue under the direction of A. B. Spaulding.

William Marriott, Jr., has been appointed Assistant General Sales Manager.

W. C. Scott will continue as Vice President in general charge of sales of all materials.

THE RUBEROID CO., at its recent annual meeting re-elected the existing Board of Directors, composed of Herbert Abraham, C. F. Batchelder, Andre Emsens, Vivian Green, W. B. Harris, Alexander Jarecki, S. P. Moffit, E. Q. Potter, E. M. Railton, L. C. Rugen, M. C. Whitaker and Stanley Woodward.

THE STANDARD INSULATION CO. has moved its Baltimore Office to 1117 Low St., from the former location at 119 Light Street.

Its Washington Office will henceforth be located at 233 - 6th St., S.W., it having moved recently from 312 - 7th St., S.W.

"MEASURING BRAKE EFFECTIVENESS?" is discussed by Dr. F. C. Stanley of Raybestos-Manhattan, Inc., in an article appearing in the April number of Brake Service (published at 31 N. Summit St., Akron, Ohio.)

ASBESTOS COVERING & TEXTILE COMPANY, has recently moved its office to Suffolk Building, Kendall Square, Cambridge, Mass. They were formerly at 172 High Street, Boston, Mass. Warehouse will remain at 195 Albany St., Cambridge, where it has been located for many years.

Warren N. Bolster, President of the Asbestos Covering & Textile Company, has been in the Asbestos business for 28 years and his office personnel has had over a century of combined experience in this line.

The Company has a gasket making department, the largest in New England, at its warehouse, where they also carry a large stock of pipe and boiler coverings, steam packings and home insulation. It was the pioneer in the home insulation line in New England and since 1927 has insulated over two thousand homes and public buildings.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Fibrous Friction Element. No. 2,150,186. Granted on March 14, 1939, to George E. Pope, Stratford, Conn., assignor to Raybes-

tos-Manhattan, Inc., Bridgeport, Conn. Application September 16, 1936. Serial No. 101,009.

An improved friction element of fibrous material having parallel edges and characterized by a uniformly interrupted relatively hard reinforced operating surface composed of a plurality of individual areas separated by two series of oppositely disposed intersecting channels extending from edge to edge at equal angles to the edges of the friction element.

MARKET CONDITIONS **(Contd. from page 20)**

the failure so far to make some needed major improvements in the product for siding is permitting other products to make rather serious inroads in some of the major metropolitan siding markets.

As a result there is a lack of firmness in the general price situation and, unfortunately, certain markets are badly disturbed by dumping of seconds and obsolete materials by a few manufacturers who seem to believe they can prosper individually by these methods regardless of general industry conditions.

The situations will undoubtedly right themselves if and when some of the extensive research and development work now under way produces the hard, smooth, permanently water repellent surface for which the industry is striving.

Sales of corrugated and flat sheets for industrial uses are fairly satisfactory, running about the same as last year, but considerably below 1937 volume.

These comments are made by asbestos executives who are in close touch with the various markets. Comments on asbestos market conditions are always welcome.

CURRENT RANGE OF PRICE

on Canadian Crudes and Fibres

	Per Ton (2000 lbs.) f.o.b. Mine
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry[1])	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 78.50
Group No. 5 (Paper Fibre)	40.00 to 45.00
Group No. 6 (Waste, Stucco or Plaster)	30.00
Group No. 7 (Refuse or Shorts)	12.00 to 25.00

[1] Crude Run-of-Mine refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and No. 2 Crude. Crudes Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

THIS and THAT

Fair Visitors. In the first 2-1/2 hours after the opening of the New York World's Fair, there were, by actual clock count, 5000 visitors at Keasbey & Mattison Company's exhibit, and a great deal of interest was displayed.

Safety. "Industrial Head and Eye Protection", the new 48 page catalog of the Chicago Eye Shield Company, 2300 Warren Blvd., Chicago, Ill., lists a very wide and complete line of goggles, respirators, spectacles, masks, and other safety devices.

Decreasing Unemployment? The American Rolling Mill Company estimates that it, with its seven affiliated companies, had to prepare for the U. S. Government in 1938, *75,000 reports*, for taxation and other purposes, the "Monopoly Investigation" alone demanding so much data that additional personnel had to be employed.

How much was necessary?

Foreign Minerals Quarterly, April 1939 edition, published by the U. S. Bureau of Mines, treats of mineral production, imports and exports of asbestos, magnesite and many other substances in Austria, Czechoslovakia, Germany, Hungary, Italy, and Poland for the years 1936, 1937 and 1938. See page 29 for Production figures on asbestos in some of these countries.

Improvement in Electric Sales. Sales billed by the General Electric Company during the first quarter of 1939 amounted to $68,537,269 compared with $65,086,557 during the same quarter last year an increase of 5%.

Profit in the first quarter of 1939 was $7,373,431; same period in 1938—$7,075,739, an increase of 4%. Orders received during the quarter showed an increase of 33% in 1939 over 1938.

A. S. T. M. The 42nd Annual Meeting of the American Society for Testing Materials will be held at Chalfonte-Haddon Hall, Atlantic City, N. J., June 26 to June 30, and, in conjunction therewith, the Fifth Exhibit of Testing Apparatus.

Fair. This appears to be a "Fair" number and the Asbestos Industry is fairly represented by exhibits, and the use of asbestos materials in construction, at both sides of the country—New York and San Francisco.

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DO YOU KNOW-

That in England corrugated wire glass is not popular for roof lighting in connection with asbestos-cement corrugated roofing, therefore specially made sheets of asbestos-cement corrugated roofing are provided, into which are built dead window lights or lights which can be opened by a gear and cord for ventilation. . . . .

That Amosite asbestos was first spun by the Cape Asbestos Company in 1924, but had previously been used for yarn in Germany. . . . .

That the first patent on engine packing embodying asbestos was granted in 1857 to Richard Lloyd in England. There is no evidence, however, that it was put to practical use. . . . .

That in its four mills at Thetford Mines, Black Lake and Vimy Ridge, Asbestos Corporation Limited crushes 12,000 tons of asbestos-bearing rock every 24 hours. . . . .

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(Send us Do You Know items concerning your Company for use on this page)